

For more information on the Consortium, contact:

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Eric Koglin
EPA National Exposure Research Laboratory
Environmental Sciences Division
P. O. Box 93478
Las Vegas, Nevada 89193-3478
702-798-2432 fax 702-798-2261
Internet: koglin.eric@epamail.epa.gov

Steve Billets
EPA National Exposure Research Laboratory
Environmental Sciences Division
P. O. Box 93478
Las Vegas, Nevada 89193-3478
702-798-2232 fax 702-798-2261
Internet: billets.steve@epamail.epa.gov

Dan Powell
EPA Technology Innovation Office (5102G)
401 M Street, SW
Washington, DC 20460
703-603-7196 fax 703-603-9135
Internet: powell.dan@epamail.epa.gov

Updated information on CSCT activities, including evaluation reports and verification statements and reports, is available electronically at two World Wide Web sites maintained by EPA:

<http://www.epa.gov/etv> (ETV Homepage)
<http://clu-in.com/char1.htm> (Hazardous Waste Cleanup Information (CLU-IN) Homepage)

Technology Verification Program

Wellhead Monitoring for Volatile Organic Compounds

1997 Verification Area



Consortium for Site Characterization Technology

Developers face many problems moving new site characterization and monitoring technologies from prototype to routine use. These include convincing regulators and customers the product meets its performance claims; lack of credible performance data; access to unbiased third parties to evaluate the data; and identifying representational test sites and challenging demonstration designs. The government's interest in achieving national goals faster, better, and less expensively warranted a united effort to address these problems.

The **Consortium** is a partnership of DoD, DOE, EPA, and the private sector whose goal is to increase the acceptance and use of innovative field monitoring, and characterization technologies in assessing and supporting remediation of contaminated sites. The Consortium achieves this goal by supplying technology buyers, developers, consulting engineers, states, and EPA Regions with high quality performance data for new technologies verified by independent third parties under the auspices of EPA.

How Does The Process Work?

The **Consortium** supports demonstration and verification testing of site characterization and monitoring technologies by: assisting developers with selecting sites; preparing and approving demonstration plans; and auditing demonstrations. Data interpretation, preparation of a verification report, and issuance of a verification statement are the responsibilities of EPA and the verification organization.

The process begins with an assessment of the needs of the user community. The Consortium determines the status of technologies to meet those needs, including the maturity of those technologies. Qualified vendors are invited to participate and work with the verification organization to develop test plans in accordance with CSCT guidance. Field testing is performed at two separate sites. Results are reviewed by EPA, the vendor, and are peer reviewed by technical experts. A final report (including an EPA Verification Statement) is then issued.

Wellhead Monitoring for Volatile Organic Compounds

What it is: The technologies within this category address a broad spectrum of characterization and monitoring needs encountered in local and regional groundwater monitoring programs. Each fulfills a specific characterization or monitoring role. Many of the technologies complement the capabilities of others in the category. The technologies demonstrated include a sensor providing real-time detection of TCE and other trihalomethanes, field portable gas chromatograph/mass spectrometers, and a multi-gas photoacoustic spectroscopy unit.

When/where demonstrated:

► **Aiken, SC** **September 8, 1997**

(DOE's Savannah River Site)

► **Sacramento, CA** **September 22, 1997**

(McClellan Air Force Base)

Who participated:

- Perkin Elmer/Photovac
- Inficon
- Electron Sensor Technology
- Innova AirTech Instruments, A/S
- Sentex Systems Inc.

The EPA Verification Statements will be posted on the Internet when completed. See the last page of this folder for Web site addresses. Hard copies of completed reports can be requested from the National Center for Environmental Publications and Information (NCEPI) by calling 1-800-490-9198. NCEPI's Web site may be visited at www.epa.gov/ncepihom.